

Complete Listing of Claims

1. (Currently Amended) A heat-curable composition comprising

(A) a vinyl polymer having at least one phenol group at the main chain terminus, wherein the (A) component vinyl polymer has its main chain produced by polymerizing a (meth) acrylic monomer and wherein the (a) component vinyl polymer has a ratio (Mw/Mn) of weight average molecular weight (Mw) and number average molecular weight (Mn) as measured by gel permeation chromatography of less than 1.8

and (B) a phenolic resin.

2. (Currently Amended) The heat-curable composition according to Claim 1 wherein the (A) component vinyl polymer has its main chain produced by the living radical polymerization of a vinyl meth(acrylic) monomer.

3. (Currently Amended) The heat-curable composition according to Claim 1 wherein the (A) component vinyl polymer has its main chain produced by the atom transfer radical polymerization of a vinyl (meth)acrylic monomer.

4. (Currently Amended) The heat-curable composition according to Claim 1 wherein the (A) component vinyl polymer is obtained obtainable by the procedure comprising

(1) producing a halogen-terminated vinyl polymer by atom transfer radical polymerization and

(2) converting the terminal halogen of said polymer to a phenol group-containing subsistent group.

5. (Canceled)

6. (Currently Amended) The heat-curable composition according to Claim 5 1 wherein the (meth) acrylic monomer is a (meth) acrylic acid ester monomer.

7. (Original) The heat-curable composition according to Claim 6 wherein the (meth) acrylic acid ester monomer is an acrylic acid ester monomer.

8-9. (Canceled).

10. (Previously Presented) The heat curable composition according to Claim 1 wherein the (A) component vinyl polymer has a number average molecular weight of 500 to 100,000.

11. (Currently Amended) A shaped article as obtainable obtained by curing the heat-curable composition according to Claim 1.

12. (Currently Amended) A polymer as obtainable obtained by reacting (A) a vinyl polymer having at least one phenol group at the main chain terminus, wherein the (A) component vinyl polymer has its main chain produced by polymerizing a (meth) acrylic monomer and wherein the (A) component vinyl polymer has a ratio (Mw/Mn) of weight average molecular weight (Mw) and number average molecular weight (Mn) as measured by gel permeation chromatography of less than 1.8 with (C) an aldehyde compound.

13. (Currently Amended) The polymer according to Claim 12 wherein the (A) component vinyl polymer has its main chain produced by the living radical polymerization of a vinyl (meth) acrylic monomer.

14. (Currently Amended) The polymer according to Claim 12 wherein the (A) component vinyl polymer has its main chain produced by the atom transfer radical polymerization of a vinyl (meth) acrylic monomer.

15. (Currently Amended) The polymer according to Claim 12 wherein the (A) component vinyl polymer is obtainable obtained by the procedure comprising

(1) producing a halogen-terminated vinyl polymer by atom transfer radical polymerization and

(2) converting the terminal halogen of said polymer to a phenol group-containing substituent group.

16. (Canceled).

17. (Currently Amended) The polymer according to Claim 16 12 wherein the (meth) acrylic monomer is a (meth) acrylic acid ester monomer.

18. (Original) The polymer according to Claim 17 wherein the (meth) acrylic acid ester monomer is an acrylic acid ester monomer.

19-20. (Canceled).

21. (Previously Presented) The polymer according to Claim 12 wherein the (A) component vinyl polymer has a number average molecular weight of 500 to 100,000.

22. (Currently Amended) The polymer according to Claim 12 wherein the aldehyde compound ~~(B)~~ C is at least one member selected from the group consisting of formaldehyde, hexamethylenetetramine, paraformaldehyde, furfural, acetaldehyde and salicylaldehyde.

23. (Previously Presented) A heat curable composition comprising the polymer according to Claim 12.

24. (Original) A shaped article as obtainable by curing the heat-curable composition according to Claim 23.

25. (Currently Amended) The A heat-curable-composition according to Claim 1 comprising (A) a vinyl polymer having at least one phenol group at the main chain terminus, (B) a phenol resin and further comprising (C) an aldehyde compound.